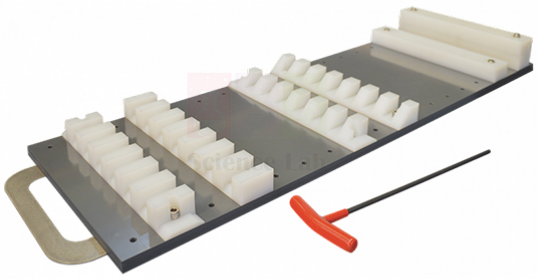
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Product Name :

Energy Dissipation

Product Code :

SLE/EFM/17



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Description :

Energy Dissipation (Product Code: SLE/EFM/17) is an open-channel accessory for studyinghow the energy of fast-moving water is dissipated below a hydraulic structure. It consists of a long apron and a selection of toothed and solid blocks that can be arranged in any combination on the apron. Civil and irrigation engineering departments use it to teach stilling-basin design, and it is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a TVET and engineering lab equipment manufacturer in India.

Key Details

Parameter	Detail
Main component	Long apron
Blocks	Selection of toothed and solid blocks
Arrangement	Blocks can be placed in any combination on the apron
Used with	The channel and hydraulic structure it is fitted below (not part of this item)
Purpose	Study of the dissipation of energy

Typical Use

Water leaving a spillway is fast and shallow, carrying enough energy to scour a riverbed if it is not tamed. With the apron placed downstream of the hydraulic structure, students first observe the flow and the hydraulic jump on the plain apron, then add toothed and solid blocks in different layouts and watch how the jump shortens, stabilises or moves. Measuring the water depths before and after the jump lets them calculate the energy lost for each arrangement and judge which layout performs best as a stilling basin.

Because the blocks can be arranged freely, groups can be set design challenges — for example, reaching a stable jump within the shortest length of apron. Record every layout with a sketch or photograph so results can be compared later, and dry the blocks before storage. The set is equally suited to TVET lab equipment lists for water-engineering diplomas and to degree-level hydraulics courses.

Manufacturer

The apron and block set is manufactured by **Jain Scientific Equipments Private Limited**, which trades as **ScienceLab** and operates from Ambala, Haryana. More about our work with engineering institutions is on the company profile page.

Related Fluid Mechanics Equipment

Channel equipment that fits the same energy-dissipation and scour experiments:

- Meter Flume — a recirculating flume to run the apron in; confirm fitting with us
- Sluice Gate with Tappings — another way to create fast flow ahead of a hydraulic jump
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